

June 1, 2014  
Revised Per: [illegible]

DRILL HOLES

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**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 235 (THREE NOTCH ROAD) AT WILDEWOOD BOULEVARD/OAK CREST DRIVE IN ST. MARY'S COUNTY.

**INTERSECTION OPERATION**

A NEMA "S" CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH UPS SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE WILL BE EXCLUSIVE LEFT TURN PHASES FOR BOTH THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 235 WITH AN ASSOCIATED RIGHT TURN OVERLAP FOR THE WESTBOUND OAK CREST DRIVE NORTHBOUND RIGHT TURN MOVEMENT. THE MD 235 THROUGH MOVEMENT WILL OPERATE CONCURRENTLY. THE WILDEWOOD BOULEVARD/OAK CREST DRIVE MOVEMENTS SHALL OPERATE IN A SIDE STREET SPLIT MODE.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY	DESCRIPTION
NONE	

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 EA	27 FT. STEEL MAST ARM POLE WITH 60 FT. MAST ARM
2 EA	27 FT. STEEL MAST ARM POLE WITH 70 FT. MAST ARM
2 EA	15 FT. LUMINAIRE ARM
2 EA	LED LUMINAIRE
1 EA	STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA "S" CABINET WITH UNINTERRUPTIBLE POWER SUPPLY, VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE, AND FOUR-CHANNEL LOOP DETECTOR AMPLIFIERS [Note: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO THE S.H.A. SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650]
8 EA	TERRA VIDEO DETECTOR CAMERA AND CABLE (NO. 18 A.W.G.)
4 EA	NON-INVASIVE PROBE
5 EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST ARM MOUNT
6 EA	12 IN. 3-SECTION LED SIGNAL HEAD (R,Y,G) - MAST ARM MOUNT
2 EA	12 IN. 4-SECTION LED SIGNAL HEAD - MAST ARM MOUNT
1 EA	12 IN. 5-SECTION LED SIGNAL HEAD - MAST ARM MOUNT
2 EA	12 IN. 8 IN. 4-SECTION LED SIGNAL HEAD - MAST ARM MOUNT
7 EA	30 IN. X 36 IN. R3-5(L) REGULATORY SIGN - MAST ARM MOUNT
1 EA	30 IN. X 36 IN. R3-5(R) REGULATORY SIGN - MAST ARM MOUNT
1 EA	30 IN. X 36 IN. R3-6(L) REGULATORY SIGN - MAST ARM MOUNT
2 EA	16 IN. X VAR. D-3(T) DUAL FACE SIGN - MAST ARM MOUNT
2 EA	30 IN. X 48 IN. SHIELD ASSEMBLY SIGN - GROUND MOUNT/POLE MOUNT
2 EA	48 IN. X 72 IN. SHIELD ASSEMBLY SIGN - GROUND MOUNT/POLE MOUNT
5 CY	TEST PIT EXCAVATION
15 EA	HANDHOLE
500 LF	2-CONDUCTOR TRAY CABLE (NO. 12 AWG)
750 LF	5-CONDUCTOR CABLE (NO. 14 AWG)
2800 LF	7-CONDUCTOR CABLE (NO. 14 AWG)
525 LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
60 LF	2 IN. PVC CONDUIT (SCHEDULE 80) - TRENCHED
1085 LF	3 IN. PVC CONDUIT (SCHEDULE 80) - TRENCHED
165 LF	3 IN. PVC CONDUIT (SCHEDULE 80) - BORED
120 LF	3 IN. PVC CONDUIT (SCHEDULE 80) RISER
4 EA	3 IN. WEATHERHEAD
20 LF	4 IN. PVC CONDUIT (SCHEDULE 80) - TRENCHED
500 LF	4 IN. PVC CONDUIT (SCHEDULE 80) - BORED
15 CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
6 EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
1 EA	EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS)
70 LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
3 EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
5 EA	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT
1 EA	R4-7 (24" X 30") SIGN - GROUND MOUNT
1 EA	R1-2 (36" X 36") SIGN - GROUND MOUNT
1 EA	W11-2 (30" X 30") AND W16-7P(L) (24" X 12") SIGNS - GROUND MOUNT
1 EA	OM-1 (18" X 18") SIGN - GROUND MOUNT
65 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
1210 LF	5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
1935 LF	5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
485 LF	10 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
320 LF	TEMPORARY 10 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
110 LF	12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
680 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
7 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
1300 LF	RELOCATE EXISTING INTERCONNECT CABLE

**CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:**

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1019	MR. JOE GECKLE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1013
MR. MIKE HUBER UTILITY ENGINEER (410) 841-1039	MR. JAMES FOLDEN ASSISTANT DISTRICT ENGINEER - CONSTRUCTION (410) 841-1031
MR. ED RODENHIZER SIGNAL OPERATIONS (410) 787-7652	

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY**

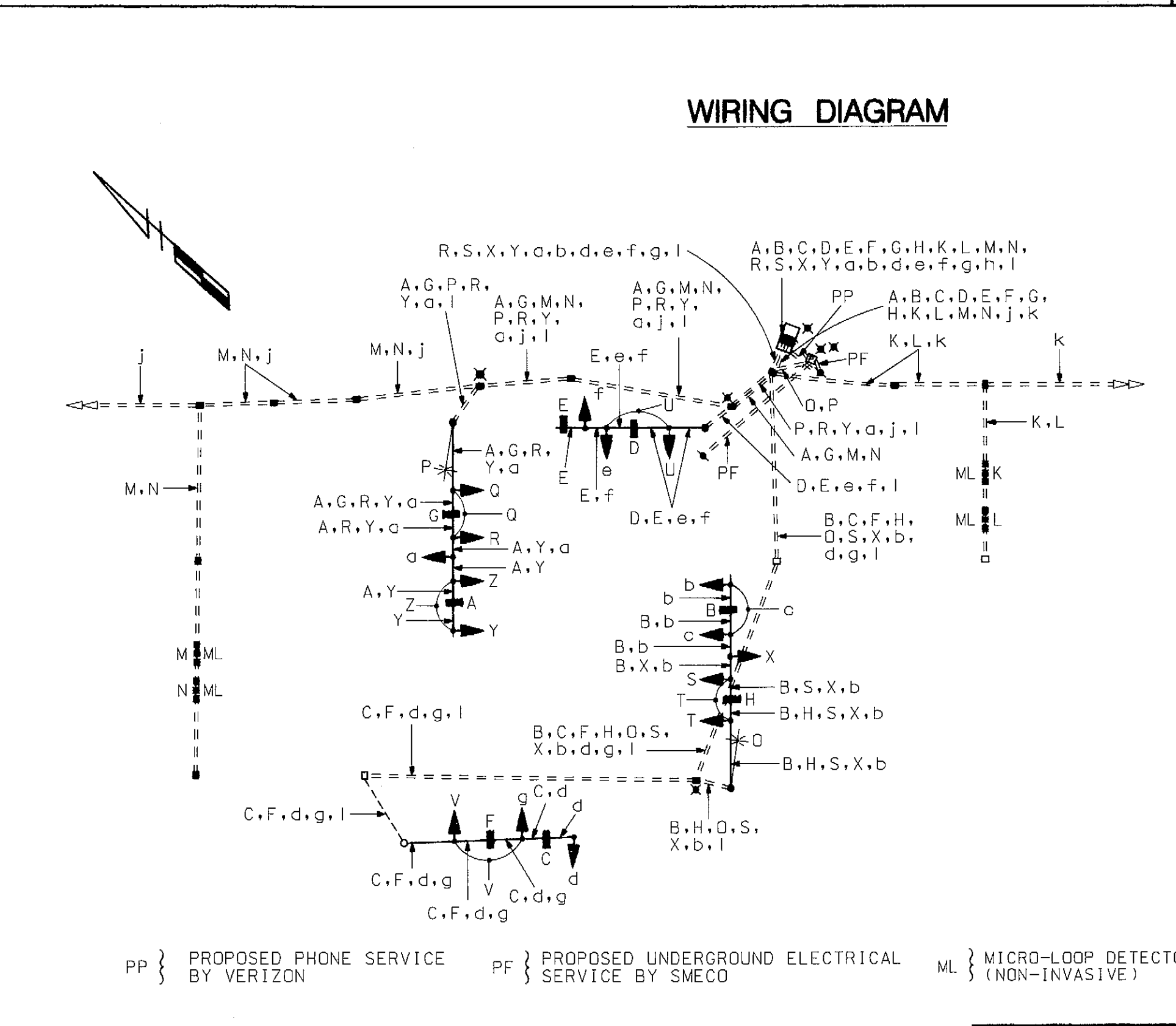
MR. AVIJIT MAJI CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MR. MIKE STOCKER SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668
MR. ED RODENHIZER CHIEF - SIGNAL OPERATIONS SECTION (410) 787-7652	

**SMECO**

MIKE BARRINGER  
P.O. BOX 1937  
HUGHESVILLE, MD 20637

# PHASE CHART

PHASE 1 AND 5	←G-	R	R	←G-	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
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**MD-AMD Tracking No.: 05APSM003XX**

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 235 AT WILDEWOOD BLVD./ OAK CREST DR.**  
CALIFORNIA, MARYLAND

**GENERAL INFORMATION PLAN**

SCALE	N/A	DATE	1-2-2013	CONTRACT NO.	BW996M82
DESIGNED BY	T.Z.	COUNTY	ST. MARY'S		
DRAWN BY	J.K.S.	LOGMILE	18023517.48		
CHECKED BY	K.S.	T.I.M.S. NO.	1596		
F.A.P. NO.	N/A	TOD NO.	N/A		
DRAWING NO.	2535E-GI	SHEET NO.	4	OF	4

PLOTTED: Wednesday, January 30, 2013 AT 11:13 AM  
FILE: Z:\1800\1819\TRAF-CON-PLANS (Traffic Concepts Signal)\Oak Crest Nov-16-12 sfp pm ic.dgn